VIPER PRO TECH TIPS

Viper Pro v10.4.14 is truly one of the most powerful field computers in the business. Below, we have outlined some helpful information to assist with the long days in the field for your seeding season.
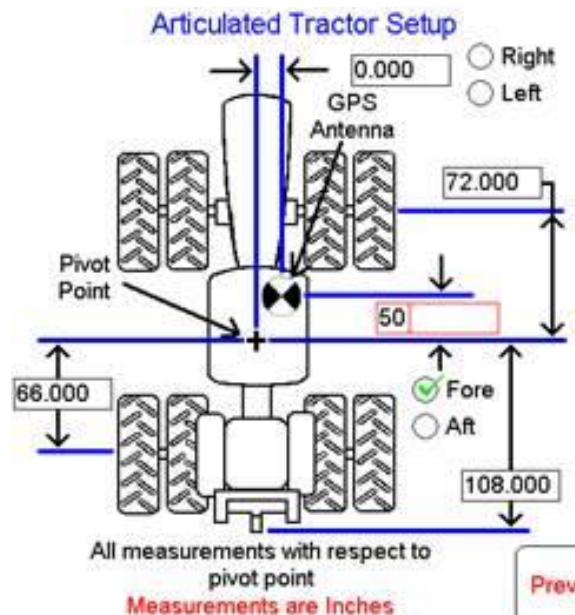
1. Power down the Viper Pro before starting the tractor

The Viper Pro system is connected directly to the battery and uses a relay to switch power on and off. It is important that the power down and power up procedure is used every time you operate the Viper Pro.

- Be sure the tractor is running before turning on the Viper Pro.
- Be sure you power down the Viper Pro before shutting down the tractor.
- Be sure you never start the tractor if the Viper Pro system is running. Doing so may send a voltage spike to the system. This can cause damage and render it potentially inoperable.

2. Tractor Measurements

The Viper Pro system uses various measurements to ensure it knows where your toolbar is behind you. Because your GPS antenna is mounted on the tractor, we need to have precise measurements to allow the Viper Pro to calculate the virtual path that the toolbar is taking. This is very important for your Auto Zone Command™ system to map correctly. Your Viper Pro system comes from the factory with generic measurements entered. *As the operator, it is your responsibility to ensure your tractor measurements are correct.* Please see your SeedMaster Operator's Manual for more information. To obtain a copy of the manual please download an electronic version at SeedMaster Operator's Manual.

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3. Turn-On / Turn-Off Look Ahead Lead Times

The Viper Pro system uses GPS to automatically turn zones on and off. Correctly entered lead times will ensure your system does not leave any unseeded areas in your fields. Your Viper Pro system comes from the factory with generic lead times entered. *As the operator, it is your responsibility to ensure your lead times are correct.* The "Turn-On' Look Ahead" indicates how much time it takes for the product to get to the openers from the time the meter is turned on as you are approaching an unapplied area. The "Turn Off' Look Ahead" indicates how much time it takes the product to stop flowing to the openers from the time the meter stops rotating as you are approaching an applied area or virtual applied area. These lead times can be calculated while doing a stationary test.

To do the stationary test:

1. Turn product "ON" and count how many seconds it takes until you see product at the openers.
2. Add half a second to the time you counted. Your "Turn-On Look Ahead" for that product is set.
3. Turn the meter off and count the time it takes for the product to stop flowing to the openers.
4. Subtract half a second from the time you counted. Your "Turn-Off Look Ahead" is set. *Remember, fan RPM changes affect your Look Ahead times.*

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4. Selecting all job options when starting a new job

When starting a new job, it is important that you have all the job options selected. The three options are **1) Product Application, 2) Swath Guidance,** and **3) Section Control**. Ensure that all three of these are checked off before starting your job. We also recommend that you run in the "**Guide**" tab when the job is open to ensure a smooth operation.

5. Display Data – CAN Node Alarms window

Among other alarms that let you know the state of your system, the CAN Node alarm screen will pop up if you are off rate, or a low bin level is present. After the alarm is cleared, the Alarm page remains popped up on the screen. The alarm screen is easily hidden by touching the DD button (Display Data). This button is located to the left of the Slingshot globe.
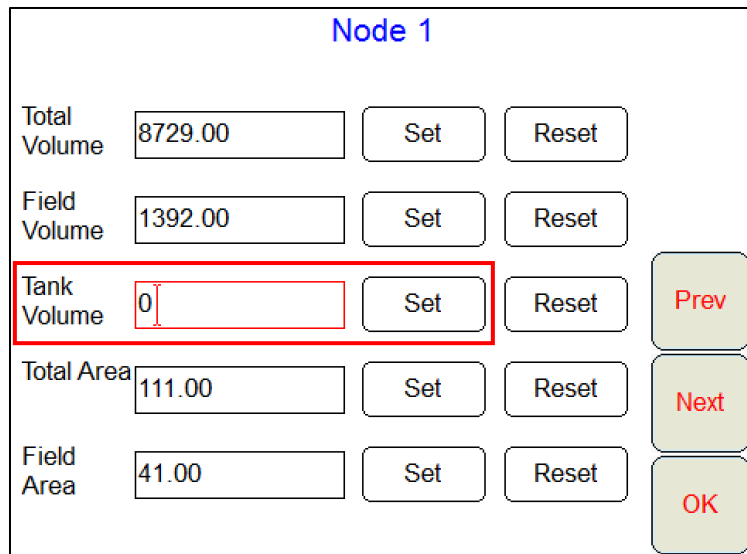
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6. Reading Tank Volume (weight in LBS) from load cells

If your machine is not equipped with load cells, you can manually enter a tank volume weight in LBS and have the Viper Pro compute how many pounds of product you are using. This feature can be disabled to have the Viper Pro read in a live tank weight from the load cells (if equipped) and display the weight on the main operating page. To view live tank weight on the main operating page:

1. Touch "**Product Control**".
2. Touch "**Tally Reg**".
3. Touch "**Next**".
4. Touch "**Next**".
5. You will be on Node 1 page (Product One).
6. Enter a "0" Tank Volume and touch "**Set**".
7. Touch "**Next**" to go to the next node (product).
8. Enter a "0" Tank Volume for every product that is equipped with load cells.
9. When done touch "**OK**".
10. Touch "**OK**".
11. You will see a live tank weight on the main screen. It will display "Ready" with the tank weight below it.

7. File Maintenance

The Viper console has a finite amount of internal memory. When the Viper memory becomes full, all field operations are halted until internal memory storage can be cleared. This can become a time consuming and frustrating process if left until all internal memory storage is completely full. SeedMaster recommends that job information be downloaded from the Viper console every 640 acres to ensure that it operates at optimal efficiency and avoid work stoppages. Please refer to your SeedMaster Operator's Manual for the procedure to perform File Maintenance on your Viper Pro field computer.

We thank you for maintaining your SeedMaster equipment. If you have any questions, please contact your SeedMaster Certified Dealer directly.